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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/673,201	09/30/2003	Yasuhiko Oosawa	50195-385	9608	
75	7590 07/28/2006			EXAMINER	
McDERMOTT, WILL & EMERY			ALEJANDRO, RAYMOND		
600 13th Street, N.W. Washington, DC 20005-3096			ART UNIT	PAPER NUMBER	
			1745	•	
			DATE MAILED: 07/28/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/673,201	OOSAWA ET AL.
Office Action Summary	Examiner	Art Unit
	Raymond Alejandro	1745
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDON	N. imely filed In the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
 Responsive to communication(s) filed on <u>07 J</u> This action is FINAL. 2b) This Since this application is in condition for alloware closed in accordance with the practice under the 	s action is non-final. nce except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 1-3 and 5-11 is/are pending in the ap 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-3, 5-11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on 30 September 2003 is/ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	wn from consideration. or election requirement. er. are: a) accepted or b) objection is required if the drawing(s) is olition is required if the drawing(s) is olition.	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).
		7,0,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. Is have been received in Applicativity documents have been received in Received.	tion No ved in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal (6) Other:	

Application/Control Number: 10/673,201 Page 2

Art Unit: 1745

DETAILED ACTION

Response to Amendment

The following document is offered in response to applicant's reply dated 07/07/06.

Applicant has only overcome the objections and the 35 USC 112 rejections. None of the prior art rejections have been overcome. Refer to the abovementioned amendment for more details concerning applicant's rebuttal arguments and remarks. Therefore, the present claims (including newly added claims 9-11) are finally rejected over the same already-applied art as shown hereunder and for the reasons of record:

Claim Disposition

1. Claim 4 has been cancelled.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-3 and 5-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Rippel 5441824.

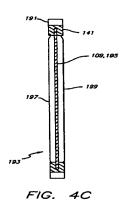
Page 3

Art Unit: 1745

The present invention is geared toward a bipolar battery wherein the disclosed inventive concept comprises the specific collecting foil having an insulation layer thereon.

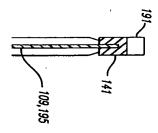
As to claim 1:

Rippel discloses a bipolar battery (TITLE). Particularly, <u>Figure 4C</u> below illustrates the biplate 109, 195 (the collecting foil) including positive active material 197 on one side and negative electrode material 199 on other side (COL 13, lines 5-20).



The bipolar electrodes are separated by separator 131 (COL 11, lines 25-45/ COL 13, lines 24-35/ See Figure 2). Separator 131 is made of rubber (COL 11, lines 40-45). It is noted that rubber is a polymeric material.

As shown in Figure 4C above and its enlarged portion below, biplate 109,195 has a sealing frame 141 in the form of a layer provided on its periphery (Col 12, lines 50-59/ Fig. 4C).



As to limitation "flexible insulation film", such a limitation is a relative term or term of degree. Accordingly, all materials exhibit flexibility or stiffness irrespectively of its degree.

Concerning claim 2:

It is apparent from <u>Figure 4C</u> above that the combination of sealing frame 141 and protruding tab 191 provided on the periphery of the biplate 109,195 protrudes outward beyond the biplate and with a protruding length longer than the thickness of the elements 197, 199 and 109/195 (See FIGURE 4C).

With regards to claims 3, 5-6 and 9-10:

Sealing frame 141 from molding material 139 is a layer adhered to the biplate (COL 12, lines 29-39 and lines 50-55/FIGURE 4C). Frame 141 is securely bonded (*adhered*) to the biplate (COL 12, lines 32-35). *Thus, it is adhesive*.

Regarding claims 7 and 11:

Protruding tab 191 represents the adhesive insulation tape further covering the insulation film (the sealing frame 141).

On the matter of claim 8:

Rippel teaches that his bipolar battery provides electric power for high-power applications such as an electric car (COL 1, lines 5-10).

Thus, the claims are anticipated.

Application/Control Number: 10/673,201

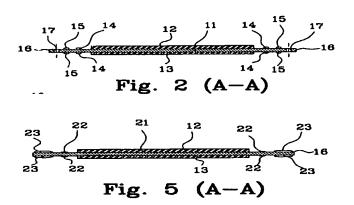
Art Unit: 1745

4. Claims 1-3 and 5-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Fredriksson et al 2003/0054244.

As to claim 1:

Fredriksson et al disclose a bipolar battery (TITLE) comprising biplate 11 or 21; a positive electrode 12; and a negative electrode 13 are attached at each side of the biplate (P. 0045, 0057).

Figures 2 and 5 below illustrate the biplate assembly:



Fredriksson et al provide electrolyte barriers 14 or 22 (P. 0049, 0057) made of a fluoropolymer material (P. 0059) on the periphery of the biplate 11 or 21 (FIGURES 2 & 5).

Fredriksson et al also dispose elastomers 15 or 23 (P. 0045, 0057) on the periphery of the biplate 11 or 21 FIGURES 2 & 5). Thus, electrolyte barriers 14, 22 or elastomers 15, 23, alone or in combination, represents the insulation layer disposed on the periphery of the biplate.

Disclosed is the use of separator 50, which is arranged between the positive electrode 12a of the first biplate assembly and the negative electrode 13b of the second biplate assembly (P. 0069).

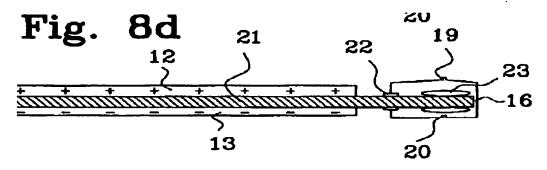
As to limitation "flexible insulation film", such a limitation is a relative term or term of degree. Accordingly, all materials exhibit flexibility or stiffness irrespectively of its degree.

Application/Control Number: 10/673,201 Page 6

Art Unit: 1745

Concerning claim 2:

Enlarged portion of Figure 8d depicts elements 22, 23 and 19 having a length longer than the combined thickness of positive electrode 12, negative electrode 13 and biplate 21 which stands for a single cell.



With regards to claims 3, 5-6 and 9-10:

Disclosed is that the electrolyte barrier 14 or 22 is applied to the biplate as a liquid or solid material and then cured in place, which will bond the barrier to the biplate (P. 0049, 0058). Thus, it is bonded (adhered) to the biplate; and, therefore, it is adhesive.

As to claims 7 and 11:

Reference numerals 19 and 23, the elastomer (P. 0057) and the tongue (P. 0052), see also Figure 8A-8F, covers the end of the biplate and acts as the additional tape material.

As to claim 8:

Fredriksson et al discloses that the battery is suitable for hybrid vehicle applications (P. 0077).

Thus, the present claims are anticipated.

Application/Control Number: 10/673,201

Art Unit: 1745

Response to Arguments

Page 7

- 5. Applicant's arguments filed 07/07/06 have been fully considered but they are not persuasive.
- 6. AS BEST UNDERSTOOD, applicant's principal line of reasoning for contending the prima-facie case of anticipation based upon Rippel'824 and/or Fredericksson et al'244 is centered on the assertion that none of the preceding references suggest the collecting foil is a "FLEXIBLE film". With reference to the term "flexible", the examiner has already expressed how the term "flexible" was, is, has been or will be interpreted in the present rejection.

 Nevertheless, the examiner's interpretation thereof is repeated here for the convenience of applicant's representative. The term "flexible" is a term of degree, and is neither defined by the claims nor characterized in the specification as filed so as to ascertain the requisite degree of "flexibility". Simply put, that limitation refers to relative terminology, and therefore, it is contended herein that all materials exhibit flexibility or stiffness irrespective of its degree, magnitude or extent. The as-filed disclosure adds nothing of significance to further delimit or characterize the term at issue.
- 7. Even if the as-filed disclosure clearly would delimit, define or characterize the term "flexible", applicant is reminded that although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPO2d 1057 (Fed. Cir. 1993).
- 8. Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

Application/Control Number: 10/673,201 Page 8

Art Unit: 1745

9. Applicant's arguments do not comply with 37 CFR 1.111(c) because they do not clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. Further, they do not show how the amendments avoid such references or objections.

Conclusion

10. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond Alejandro whose telephone number is (571) 272-1282. The examiner can normally be reached on Monday-Thursday (8:00 am - 6:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/673,201

Art Unit: 1745

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Raymond Alejandro Primary Examiner Art Unit 1745

PRIMARY EXAMINER

Page 9